

REMARKS

Claims 1-28 are pending in the application. The Examiner objects to claim 27. Claims 1-28 are rejected. The drawings are accepted. Claims 1, 11, 18 and 27 have been amended. The Examiner's objections and rejections are addressed below in substantially the same order as in the office action.

REJECTIONS UNDER 35 USC § 102

Claims 1-4, 6, 10-16, 18-22, and 24-27 are rejected under 35 USC § 102(b) as being anticipated by Leggett et al. (US 6,088,294).

Claims 1-5, 10, 18, 20-22, and 25-27 are rejected under 35 USC § 102(e) as being anticipated by Leggett et al. (US 6,614,360).

Claims 1, 11 and 18 have been amended. Support for the amendments may be found in applicants' disclosure text and figures generally, and in paragraph 29 of applicants' disclosure. The '294 reference and the '360 reference do not disclose all the limitations of applicants' invention.

REJECTIONS UNDER 35 USC § 103

Claims 5 and 17 are rejected under 35 USC § 103(a) as being unpatentable over Leggett et al. (US 6,088,294) in view of Leggett et al. (US 6,614,360).

Claims 7-9, 23 and 28 are rejected under 35 USC § 103(a) as being unpatentable over Leggett et al. (US 6,088,294) or Leggett et al. (US 6,614,360) in view of Robbins et al. (US 6,131,694) and further in view of Coates et al. (US 6,181,642).

Claims 11 and 19 are rejected under 35 USC § 103(a) as being unpatentable over Leggett et al. (US 6,088,294) or Leggett et al. (US 6,614,360) in view of Beresford et al. (US 6,131,694).

In order to sustain an obviousness rejection under 35 USC § 103, two requirements must be met. First, the prior art of record must disclose all the limitations of the claimed invention. The references together and in combination do not disclose or suggest all the limitations of the claimed invention. Applicant submits that no art of record either alone or when combined with other art of record discloses or suggests all the limitations of the claimed invention. The prior art of record along with a combination of any of these references does not

provide or suggest all the limitations of the present invention. There is no suggestion to combine the prior art of the present case to form the present invention. Accordingly, applicant respectfully submits that these claims are allowable.

CLAIM OBJECTIONS

Claim 27 is objected to because of the following informalities: Claim 27 claims dependence from claim 25, and refers to the limitation "said full waveform processing. Claim 27 has been amended as suggested by the Examiner.

CONCLUSION

For all the foregoing reasons, Applicant submits that the application is in a condition for allowance. No fee is believed due for this paper. The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No. 02-0429 (414-30676-US).

Respectfully submitted,

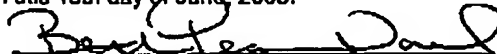
Dated: June 13, 2005



David A. Walker
Registration No. 52,334
Madan, Mossman & Sriram, P.C.
2603 Augusta, Suite 700
Houston, Texas 77057
Telephone: (713) 266-1130
Facsimile: (713) 266-8510

CERTIFICATE OF FACSIMILE TRANSMISSION

I do hereby certify that this correspondence is being transmitted via facsimile, to the Commissioner for Patents, Examiner Scott A. Hughes, facsimile no. (703) 872-9306, on this 13th day of June, 2005.


Beth Pearson-Naul